## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | טיי חו.                | DATE      |  |  |  |  |  |  |
|---------------------------|----------|------------------------|-----------|--|--|--|--|--|--|
| FEE DETERMINATION         | Unile-   |                        | 119-20-01 |  |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       | 700      | $\mathcal{S}^{\prime}$ | 10/1/01   |  |  |  |  |  |  |
| FORMALITY REVIEW          | H. T     | 913                    | 10/17/01  |  |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW |          |                        |           |  |  |  |  |  |  |
|                           |          |                        |           |  |  |  |  |  |  |

## INDEX OF CLAIMS

| ~ | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
| = | Allowed                    | 1 | Interference |
|   | (Through numeral) Canceled | A | Appeal       |
|   | Restricted                 | 0 | Objected     |

| <u></u>       |                  |            | Date          |  |          |  |          |          |           |                |          | $\neg$            | Claim Date |          |              |                                   |              |   |                |              |              |          |          | ٦           | ſ     | Claim Date    |                          |                         |          |              |          |   |  |                                | $\neg$   |          |
|---------------|------------------|------------|---------------|--|----------|--|----------|----------|-----------|----------------|----------|-------------------|------------|----------|--------------|-----------------------------------|--------------|---|----------------|--------------|--------------|----------|----------|-------------|-------|---------------|--------------------------|-------------------------|----------|--------------|----------|---|--|--------------------------------|--|----------|
| C             | air<br>T         | <u>n  </u> | <u> </u>      |  |          |  |          |          |           |                |          |                   |            |          |              |                                   |              |   |                |              | 7            | ۲        |          |             |       |               |                          |                         |          |              |          |   | $\neg$   |                                |  |          |
| .             | 13               | 喜          | 013           | 1  |          |  |          |          | I         | İ              |          |                   | _          | Original | - [          |                                   |              |   |                |              |              |          |          |             |       | _             | Original                 |                         |          |              |          |   |  |                                |  |          |
| 1             |                  | 힑          | 3             |  | - 1      | Ì  |          |          |           |                |          | ]                 | Final      | 흔        | - 1          | -                                 | 1            |   |                |              |              |          |          |             | - [ . | Final         | ž.                       |                         |          |              |          |   |  |                                |  | - 1      |
| 1             | 1                | G Onginal  | $\rightarrow$ | _  | _        | _  |          | $\sqcup$ | 4         | _+             | -        | $\dashv$          | <u>u</u>   |          | $\dashv$     | -                                 | $\dashv$     | +   | +              | $\dashv$     | $\dashv$     | $\dashv$ | -        | $\dashv$    | H     | -             | 101                      | $\vdash$                | -+       | -+           | $\dashv$ | -+  | $\dashv$   | $\dashv$                       | $\dashv$   | ۲        |
| L             |                  |            | 4             | $\dashv$   |          | _  |          | ╙        | _         | _              | _        | 4                 | -          | 51       | -            |                                   | $\dashv$     |   | +              | $\dashv$     | +            | +        |          | $\dashv$    | -     |               | 102                      | $\vdash \vdash$         | -        | -            | $\dashv$ | -+  | +  | +                              | $\dashv$   | -        |
| L             |                  | 2          | 4             | $\Box$   |          |  |          | Ш        | $ \bot $  | _              | $\dashv$ | _                 | <u> </u>   | 52       | 1            | _                                 | -            | $\dashv$  | +              | +            |              | $\dashv$ | +        | -           | -     | _             | _                        | $\vdash$                | +        |              | +        | -+  | $\dashv$   | $\dashv$                       | +  | _        |
|               | T                | 3          | /             |  | [        |  |          |          | l         |                |          | $\Box$            | <u></u>    | 53       |              | $ \bot $                          | _ļ           | _   | _              | _            | _            | _        | $\perp$  | 4           | F     | _             | 103                      |                         | $\dashv$ | $\dashv$     | -+       | $\dashv$  |  | $\dashv$                       | $\dashv$   |          |
|               | I                | 4          | 7             |  |          |  |          |          |           | [              | _[       |                   |            | 54       |              | _                                 |              |   | $\perp$        | _            | -            | $\dashv$ | -        | $\dashv$    | -     | -             | 104                      | $\vdash \vdash$         | $\dashv$ | +            | $\dashv$ | $\dashv$  | $\dashv$   | -+                             | $\dashv$   | _        |
| Γ             | Т                | 5          | 7             |  |          |  |          |          |           |                |          |                   |            | 55       |              | _                                 |              | _   | _              | _            | _            | _        | _        | _           | 1     | $\rightarrow$ | 105                      | $\vdash$                | -        | $\dashv$     | -        | -   | +  |                                | -  |          |
| Г             | Т                | 6          | ᄀ             |  |          |  |          |          |           |                |          |                   | L          | 56       |              |                                   | _            | $\dashv$  | _              | _            |              | _        |          | _           |       |               | 106                      | $\vdash$                | -+       | -+           | -+       | }   | -  | -+                             | -  | _        |
|               | T                | 7          | ィ             |  |          |  |          |          |           |                |          |                   |            | 57       |              |                                   |              | _   | 4              | _            |              | _        | _        | _           | -     | $\rightarrow$ | 107                      | $\sqcup$                |          | -+           |          |   |  | -                              | $\dashv$   | _        |
| Г             | 1                | 8          | 7             |  |          |  | Г        |          |           |                |          |                   | ┖          | 58       |              |                                   |              |   | _              | _            | _            | _        | $\dashv$ | _           | L     |               | 108                      |                         | _        |              | _        |   | 4  |                                |  |          |
|               | 7                | 3          | 7             |  |          |  |          |          |           |                |          | _]                |            | 59       |              |                                   |              |   |                |              |              |          | $\perp$  |             | Ļ     |               | 109                      |                         | _        | _            | _        | _   | _  |                                |  | _        |
| F             |                  | _          | O             |  |          | Γ  |          |          |           |                |          |                   |            | 60       |              |                                   |              | I   |                |              |              |          | $\perp$  |             | L     | $\rightarrow$ | 110                      | $\sqcup$                |          | _            |          | _   |  | _                              | _  |          |
| H             |                  | 11         | 1             |  |          |  | $\vdash$ | T        |           |                |          |                   |            | 61       |              |                                   |              |   |                |              | $\Box$       |          |          |             |       |               | 111                      | $\sqcup$                |          |              |          |   | ļ  | _                              | _  |          |
| $\vdash$      | _                | 12         | 7             |  |          | Γ  | T        | Τ_       | Г         | $\Box$         |          | $\neg$            |            | 62       | П            |                                   |              |   |                |              |              | _7       | $\Box$   |             |       | _]            | 112                      |                         |          |              |          | _   |  |                                | _  |          |
| $\vdash$      | _                | 13         | _             |  |          | <del>                                     </del> | Т        | t        | Г         | П              |          | $\neg$            |            | 63       |              |                                   | П            |   |                |              |              |          |          | _]          | ſ     |               | 113                      |                         | [        |              |          |   |  | i                              | l  |          |
|               | -                | 14         | 7             | 1  | H        | <del>                                     </del> | $\vdash$ | 1-       | $\vdash$  | $\vdash$       | $\vdash$ | $\sqcap$          |            | 64       | П            | П                                 |              |   |                |              |              | $\neg$   |          |             | ſ     |               | 114                      |                         | $\Box$   |              |          |   | [  |                                |  |          |
| F             |                  | 15         | 6             | <del>                                     </del> | 1        | H  | $\vdash$ | +        | $\vdash$  | -              | H        | Н                 |            | 65       | T            |                                   |              | П   | 7              |              |              | $\neg$   |          | ٦           | ſ     |               | 115                      | П                       |          |              |          |   |  |                                |  |          |
| -             |                  | 16         | 2             | +-   | $\vdash$ | $\vdash$   | ╁        | +        | $\vdash$  | $\vdash$       | H        | $\dashv$          | -          | 66       | 1            | Г                                 | $I^{-}$      | $\vdash$  | $\dashv$       |              | _            |          |          | $\neg$      | ı     |               | 116                      |                         |          |              |          |   |  |                                |  |          |
|               |                  | 17         | -             | _  | ├-       | +  | $\vdash$ | +        | -         | Н              | Н        | Н                 |            | 67       | $^{\dagger}$ | $\vdash$                          | I            | П   | $\neg$         | $\dashv$     | $\neg$       |          |          | $\exists$   | t     |               | 117                      |                         |          |              | T        | N   | 7  |                                |  | Ĺ        |
|               |                  | 18         | 5             | <del> </del>                                     | ⊢        | ╁  | +        | ╁        | $\vdash$  | $\vdash$       | $\vdash$ | Н                 | -          | 68       | t-           | $\vdash$                          | $\vdash$     |   |                | H            | , v          |          | A        | 1           | A     | D             | 116<br>117<br>118<br>120 |                         |          |              | JH       | M   |  | $\neg$                         |  |          |
| -             | _                |            |               | <del> </del>                                     | $\vdash$ | ╀  | +        | +-       | $\vdash$  | ├              | $\vdash$ | H                 | -          | 69       |              | V                                 | 40           | 200   |                | Н            | 7            | V        | A        |             | Η     | Ü             |                          | 1 4                     | 1        | ~            | 7-13     | ٦   | $\neg \uparrow$                                  |                                | П  |          |
| -  -          | -                | 19         | b             | +  | ├-       | ╀  | +-       | +        | 1-        | -              | ├─       | Н                 | -          | 70       | +            | H                                 | 3            |   | <b>)</b>       |              | 7            | ₩.       |          | y Principal | •     | -             | 120                      | +                       |          | H            | Н        | $\dashv$  | $\neg$   | $\neg$                         | П  | Γ        |
| L             | _                | 20         | <u> </u>      | 1  | ╙        | L  | 1        | $\perp$  | <b> </b>  | $\vdash$       | <b>.</b> | Н                 | <u> </u>   |          | -            | <u> </u>                          | 1            | 55  | _1             | 닏            | $\vdash$     | $\vdash$ | ╁╌┼      | $\dashv$    | ŀ     |               | 121                      | +                       | $\vdash$ | Н            | -        | $\vdash$  |  | $\dashv$                       | Н  | $\vdash$ |
| L             |                  | 21         | ŀ             | 1  | <u> </u> | L  | 1        | 4        | ـــــ     | <del> </del> _ | $\vdash$ | $\square$         | $\vdash$   | 71       | _            | $\vdash$                          | -            |   |                | H            | -            | -        | $\vdash$ | -           | ŀ     |               | 122                      | $\vdash$                |          | Н            |          | $\dashv$  | -  | $\dashv$                       | Н  | -        |
|               |                  | 22         |               | lacksquare                                       | 1_       | Ŀ  | ↓_       | 4        | ļ.,       | <u> </u>       | <u> </u> | Ш                 | <u> </u> _ | 72       |              | $\vdash$                          | 1-           | $\vdash$  |                | $\vdash$     | ┝╌┥          | Н        | ┝┥       | $\dashv$    | ŀ     |               | 123                      | $\vdash$                | $\vdash$ | Н            |          | ⊢⊢  |  | $\dashv$                       | Н  | H        |
|               | _                | 23         |               | <u>L</u>   | 1        | $\perp$  | 1_       | $\perp$  | ↓_        | <u> </u>       | <u> </u> | Ш                 | $\vdash$   | 73       | _            | $\vdash$                          | <del> </del> | <b>—</b>  | Ш              | Н            |              | $\vdash$ | $\vdash$ | $\dashv$    | ŀ     | _             | 124                      | $\vdash$                | $\vdash$ | H            | $\vdash$ | $\vdash$  |  | -                              | Н  | -        |
|               |                  | 24         | 1             | Ŀ  | Ŀ        |  | ٠.       | 1:       | <u> -</u> |                | <u> </u> | Ш                 | ·  _       | 74       |              | $oxed{oldsymbol{oldsymbol{eta}}}$ | ١            | ⊢   | <u> </u>       | <u> </u>     | $\vdash$     | _        |          | $\dashv$    |       |               | $\vdash$                 | +                       | H        | Н            |          | $\vdash$  | -  |                                | -  | $\vdash$ |
| ŞΓ.           |                  | 25         |               | L  | -        | L  | 1        |          | L         | L              | <u> </u> |                   | L          | 75       |              | _                                 | <u> </u>     | -   | -              | <u> </u>     | Щ            | <u> </u> |          | 4           |       |               | 125                      | $\vdash$                | <u> </u> | -            | H        | H   | $\vdash$   |                                | Н  | <u> </u> |
|               |                  | 26         | ſ             |  |          |  | L        |          | L         |                |          | Ш                 | L          | 76       | _            | <u> </u>                          | 1_           | 1   | L              |              | L            | L        | $\sqcup$ | _           |       | _             | 126                      | +                       | -        |              | <u> </u> | Н   |  | _                              | $\vdash$   | -        |
|               |                  | 27         |               | Π  | Γ        | Γ  | $\Gamma$ | $\perp$  | L         |                | L        | $\square$         | L          | 77       |              | 上                                 | ļ            | $oldsymbol{ol}}}}}}}}}}}}}}}}}$ |                | $oxed{oxed}$ | <u> </u>     | _        | Ш        | _           | ļ     | _             | 127                      | 1                       | ļ        | $\vdash$     | <u> </u> | H   |  |                                | $\vdash$   | H        |
|               | ٠.               | 28         | 1             |  |          |  | Τ        | $\Gamma$ | Γ         |                |          |                   |            | 78       | -            |                                   | L_           |   |                | _            |              | _        | Ш        |             |       |               | 128                      | ļ.,                     | <u> </u> |              | <u> </u> | $\vdash$  | <u> </u>   | -                              | L  | <b>⊢</b> |
|               |                  | 29         |               | $\top$   | ٠.       | T  | Τ        | 1        | Т         |                | Π        |                   |            | 79       |              | L                                 |              |   |                |              | <u></u>      | L_       | Ш        | _           | ļ     |               | 129                      | $\perp$                 | <u> </u> |              | <u> </u> | $\vdash$  |  | <u> </u>                       | <u> </u>   | L        |
|               | -                | 30         |               | 1  | T        |  | T        | T        | Т         |                |          | П                 |            | 80       |              | Ĺ                                 | L            |   |                |              |              | $\Box$   | $\sqcup$ | $\Box$      |       | _             | 130                      | $\perp$                 | <u> </u> | oxdot        | <u> </u> | $ldsymbol{ldsymbol{ldsymbol{eta}}}$   | L.,  | _                              | <u> </u>   | 1        |
| ٠             | .:               | 31         |               | $\top$   | $\top$   | Ť  | 1        | 1        | 1         | T              | Ī        | $\Box$            |            | 8        | 1            |                                   |              | $L^{-}$   | L              | L            | L            | L        |          |             |       |               | 131                      | 丄                       |          | $oxed{oxed}$ | <u> </u> | $ldsymbol{ldsymbol{ldsymbol{eta}}}$   | $ldsymbol{ldsymbol{eta}}$                        | L_                             | $ldsymbol{ldsymbol{ldsymbol{eta}}}$              | L        |
| ٦,            | 3 <sup>1</sup> . | 32         | _             | 1  | 1        | 1  | 1        | 1        | 1         | 1              |          | П                 |            | 82       | 2            |                                   | Ī            |   |                | $L^-$        |              |          |          |             |       |               | 132                      | L                       |          | L            | L        | $ldsymbol{ld}}}}}}$ |  | _                              | _  | L        |
| <u> </u>      | :                | 33         |               | +  | 1        | ۲  | +        | $\top$   | 1         | 1              | 1        | П                 |            | 83       | 3            | Т                                 | T            | Γ   |                |              | Γ            |          | П        |             | j     |               | 133                      | L                       | L        |              | L        |   |  |                                |  | L        |
| ٦             |                  | 34         |               | +  | +        | t  | +        | $\top$   | +         | 1              | 1        | Н                 |            | 84       | _            | T                                 | Τ            | 1   | Π              | Π            | $\Box$       |          |          | $\neg$      |       |               | 134                      |                         |          |              |          | L   | L  | Ĺ                              |  | Ŀ        |
| にはる。一般の一般の一人に |                  | 35         | +             | +  | ۲        | +  | +        | +        | +         | T              | T        | $\sqcap$          | 一          | 8        | 5            | T                                 | Τ            | 1   |                |              |              |          | П        | $\neg$      |       |               | 135                      |                         |          |              |          |   |  |                                | Ĺ  | L        |
| 7             | <del>:</del>     | 36         | 1             | +  | +        | +  | +        | +        | +         | +-             | T        | t d               |            | 86       |              | T                                 | 1            | 1   |                |              | Γ            | Г        | П        |             |       |               | 136                      |                         | Γ        | Γ            |          |   |  |                                |  | ſ        |
| 3             | <u> </u>         | 37         |               | +  | +        | +  | ╁        | +        | +-        | +              | +        | $\forall$         | <br>       | 87       |              | †                                 | 十            | T   | 1              | T            | Т            | t        | $\Box$   | $\Box$      |       |               | 137                      |                         |          | Π            |          |   |  |                                |  | Γ        |
| 5             |                  | 38         |               | +  | +-       | +  | +        | +        | +         | +              | +        | ╁┤                | $\vdash$   | 88       |              | †-                                | T            | 1-  |                | 1-           |              | t        | П        |             |       | Г             | 138                      | $\top$                  | Г        | T            |          | Γ   |  | Г                              | Π  | Γ        |
| Œ             | }.<br>}4.        | 38         |               | +  | +        | +  | +        | +        | +         | +-             | +        | ╁┤                | $\vdash$   | 8        | _            | +-                                | +            | †-  | t              | <del> </del> | T            | $t^-$    | Н        | $\dashv$    |       | _             | 139                      | $\top$                  |          | Т            | Ĭ        | Г   |  | Г                              | Π  | Γ        |
| :  -          |                  | _          | -             | +  | +        | +  | +        | +-       | ╁         | +-             | +        | +-                | -          | 90       | -            | +-                                | +            | +   | <del>  -</del> | +            | $\vdash$     | ╁        | Н        | $\forall$   |       |               | 140                      | 十                       | 1        |              | $\vdash$ | 1   |  | Г                              | T  | Г        |
|               | ) .<br>19        | 40         |               | +  | +        | +  | +        | -        | +         | ╁-             | +        | ╁╌┤               | $\vdash$   |          |              | ╀                                 | +            | +-  | $\vdash$       | +-           | +            | +-       | Н        | $\vdash$    |       | $\vdash$      | 141                      | +                       | ╁        | +            | $\vdash$ | t   | <del>                                     </del> | $\vdash$                       | <del>                                     </del> | t        |
| 4             |                  | 4          | <del>-</del>  | $\perp$  | 1_       | $\perp$  | -        | 1        | 1         | 1              | $\perp$  | $\sqcup$          | <u> </u>   | 9        | +-           | ╁                                 | ╁-           | +   | -              | $\vdash$     |              | $\vdash$ | $\vdash$ | $\dashv$    |       | $\vdash$      | 1 . 1                    | +                       | ╁        | +            | ┼        | ╁   | $\vdash$   | -                              | $\vdash$   | +        |
|               | ۴.               | 42         |               | L  |          | $\perp$  |          | $\perp$  | 上         | $\perp$        | 1        | $\sqcup$          | <br> -     | 9:       |              | ┺                                 | 4-           | $\perp$   | <del> </del>   | $\vdash$     | <del> </del> | ┞-       | $\vdash$ | Н           |       | $\vdash$      | 142                      | +-                      | +        | ┼            | ╀        | $\vdash$  | -  | -                              | ⊢  | ╁        |
| . [           |                  | 43         | 3             | $\perp$  |          |  | L        |          | $\perp$   | $\perp$        | L        | ot                | L          | 9:       |              | $\perp$                           | ↓.           | $\perp$   | <u> </u>       | $\perp$      | -            | 1        | $\vdash$ | Ш           |       | 1             | 143                      | ┿                       | 1        | ╀            | ├        | $\vdash$  | ⊢  | ├                              | $\vdash$   | +        |
| Ī             |                  | 4          |               | $\mathbf{I}$                                     | $\prod$  | Γ  |          |          | ╧         |                |          | ot                |            | 9        |              | L                                 | _            | 1   | _              | 1            | 1_           | 1        | 1        | Ц           |       | <u> </u>      | 144                      | $\bot$                  | 1        | 1            | <u> </u> |   | $\vdash$   | ├-                             | ╀  | +        |
| -             | -                | 4          |               |  |          | Т  | T        | T        | T         |                | Τ        |                   |            | 9        |              |                                   | Ĺ            |   |                | <u> </u>     | $\perp$      | L.       |          | Ц           |       | L.            | 145                      | _                       | ـ        | 1_           | ┞        | ↓_  | <del> </del>                                     | <u> </u>                       | ├-   | 1        |
|               |                  | 41         |               | 丁  | Τ        | Т  | $\top$   |          | T         | T              |          | T                 |            | 9        | 6            | Ι                                 |              |   | $L^{-}$        |              |              |          |          | Ш           |       | L             | 146                      | $\perp$                 | $\perp$  | <u> </u>     | ┖        | _   |  | _                              | ــــ   | 1        |
|               | -                | 4          |               | 1  | +        | T  | $\top$   | _        | 1         | 1              | T        | $\top$            | Г          | 9        | 7            | Π                                 |              |   |                |              |              |          |          |             |       | L             | 147                      | $\perp$                 | L        | L            | L        | L   | oxdot  | 乚                              | L  | 1        |
|               |                  | 48         | _             | $\top$   | +        | +  | $\top$   | +        | +-        | $\top$         | 1        | $\forall$         |            | 9        | В            | T                                 | 1            | 1   | 1              |              | Γ            | Γ        |          |             |       |               | 148                      | $\perp$                 |          |              | 匚        |   |  | $oxedsymbol{oxedsymbol{oxed}}$ |  | L        |
| - 1           | _                | 49         |               | +  | $\top$   | +  | +        | +        | $\top$    | +-             | $\top$   | $\dagger \exists$ |            | 9        | 9            | 1                                 | Т            | $\top$  | Ī              | Τ            |              | Г        |          |             |       | C             | 149                      | $oldsymbol{\mathbb{L}}$ |          | L            |          |   |  | L                              | $\perp$  | L        |
|               |                  | 5          |               | +  | +        | +  | +        | +        | $\top$    | +              | +        | $\top$            |            | 10       | o            | 1-                                | T            | 1   |                | T            | Τ            |          | $\Box$   |             |       |               | 150                      | I                       |          |              |          |   | 匚  |                                |  | L        |
| : 1           | _                | 10,        |               |  |          | -  | -1       |          |           |                |          |                   | _          |          |              | _                                 |              |   |                | _            |              |          |          |             |       |               |                          |                         |          |              |          |   |  |                                | -  |          |

If more than 150 claims or 10 actions staple additional sheet here

(LEFT INSIDE)

